

Name: _____ Date: _____ Period: _____

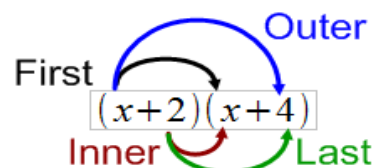
Use the FOIL METHOD and simplify the product of binomials: SHOW THE WORK

$$(x+3)(x+6)$$

 F + O + I + L

$$x^2 + \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$$

Ans:



$x \cdot x$	+	$4 \cdot x$	+	$2 \cdot x$	+	$2 \cdot 4$
<u>F</u>	+	<u>O</u>	+	<u>I</u>	+	<u>L</u>
•		•		•		•
x^2	+	$4x$	+	$2x$	+	8
$x^2 + 6x + 8$						

$$(x+2)(x+6)$$

 F + O + I + L

Ans:

$$(x+3)(x+4)$$

$$(x+5)(x+3)$$

Ans:

$$(x+3)(x+3)$$

Ans:

$$(x+1)(x+1)$$

Ans:

$$\left(x + \frac{1}{2}\right)\left(x + \frac{3}{2}\right)$$

Ans:

Use the FOIL Method

$(x-2)(x-4)$ $\frac{x^2}{F} + \frac{(-4)x}{O} + \frac{(-2)x}{I} + \frac{(-2)(-4)}{L}$ $x^2 + (-4x + -2x) + 8$ $x^2 + -6x + 8$ $x^2 - 6x + 8$	$(x-3)(x-6)$ $\frac{\quad}{F} + \frac{\quad}{O} + \frac{\quad}{I} + \frac{\quad}{L}$ $x^2 + \quad x + \quad x + \quad$ $x^2 \quad x \quad x \quad$ <p>Ans:</p>
$(x-2)(x-6)$ $\frac{\quad}{F} + \frac{\quad}{O} + \frac{\quad}{I} + \frac{\quad}{L}$	$(x-3)(x-4)$
$(x-4)(x-1)$	$(x-1)(x-5)$
$(x-2)(x+1)$	$(x-1)(x+5)$